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## PROGRAMMING LANGUAGES AND TOOLS

- Programming Languages: *MATLAB, R, Python, Lua, Delphi, GNU/BSD scripting, Visual Basic, Ruby, Scala*
- DataBase Programming: *MySQL / Apache Pig, Hadoop, Spark, YARN, HBase, Hive, Spark*
- Workflow Systems: *Apache Oozie, LinkedIn Azkaban*
- Front-end Development: *HTML5, XML, CSS3, JavaScript*
- Visualization Tools: *Google Charts, D3.js, Tableau*
- Music Programming: *CSound, MaxMSP*
- Machine/Deep Learning Framework: *Caffe, Torch*

## EDUCATION

- **Norwegian University of Science and Technology (NTNU), Centre for Quantifiable Quality of Service in Communication Systems (Q2S), Trondheim, Norway. (August 2007 – June 2011)**  
PhD. Candidate in the Department of Electronics and Telecommunications  
Supervisor: U. Peter Svensson, Professor
- **Sharif University of Technology, Tehran, Iran. (September 2004 – July 2007)**  
M.S. in Computer Science, Major: Theory of Computation  
Supervisor: M. Ardeshir, Professor, Cumulative GPA: 18.59 / 20.00
- **K. N. Toosi University of Technology, Tehran, Iran. (September 1997 – July 2003)**  
B.S. in Electrical Engineering, Major: Telecommunication  
Supervisor: M.S. Abrishamian, Assistant Professor

## WORK EXPERIENCE

- **ZEDGE Europe AS, (the world's largest mobile content discovery platform), Data Scientist, Trondheim, Norway. (Nov 2011 – Jan 2016)**  
Using Apache Hadoop/Pig/Oozie/YARN/HBase/Spark/Mahout/Hive to process/refine data and Ruby, Python, Octave, R, to analyze and visualize the data, Statistical modeling of web/mobile traffic and validation.
- **Kavli Institute for Systems Neuroscience, Centre for Neural Computation, Graduate Research Fellow, Trondheim, Norway. (July 2011 – August 2011)**  
Inferring Network Structure From Spike Data from cells that constitute a positioning system in the brain, contributing to the work that was later on awarded the Nobel Prize in medicine in 2014.  
References: Prof. Yasser Roudi, Group Leader / Prof. Edvard and May-Britt Moser (Nobel laureates)
- **Stanford University, Center for Computer Research in Music and Acoustics (CCRMA), CA, USA. (January 2010 – March 2010)**  
Making musical apps on iOS platform, programming Objective-C on XCode/Holding experiment setups for rhythmic collaboration. / Reference: Chris Chafe, Director
- **Valiyacom, Taliya Mobile Operator, Radio Network Planning Engineer, Tehran, Iran (Feb 2006 – May 2007)**  
Nominal and frequency planning/Geo-tagging and visualization of mobile sites/Mobile network traffic calculation, dimensioning and optimization/Drive testing, coverage assessment, and Technical Telecom Site Survey (TSS)
- **Tamin Machine Services and Management Consultation Co., Tehran, Iran, R&D Department of Computer Networks. (July 2004 – May 2005)**  
Network traffic monitoring and protocol analysis/LAN installation, test and maintenance
- **Sima Rayaneh Alborz Co. Ltd., Co-Founder / Managing Director, Tehran, Iran. (May 2003 – March 2004)**  
Web Design and Programming / 3D Anaglyph and Autostereogram Imaging